

Chapter 4 Quiz 1 Study Guide

Lessons 4-1 through 4-4

Lesson 4-1- Divisibility and Mental Math- Circle all numbers that each given number is **divisible** by. Use divisibility rules.

Number	Divisible by....
4,590	2 3 5 6 9 10
896	2 3 5 6 9 10
945	2 3 5 6 9 10

Lesson 4-2- Exponents

Simplify each expression. Show your work step by step.

3) $2^4 + 5^2 + 106$	4) $(4^2 - 4) \times 10$	5) $4 + 7 \times 2^3$
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Lesson 4-3- Prime Numbers and Prime Factorization- Find the **Prime Factorization** of each number using a factor tree or a birthday cake. Write your final answer using exponents if possible.

7)	58	8)	72	9)	40
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Lesson 4-4 Greatest Common Factor- Use a **division ladder** or **factor trees** to find the GCF of each set of numbers.

10) 32, 24 and 40	11) 56 and 35	12) 27 and 36
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Squares and Square Roots- Try to complete the following to the best of your ability **without** looking at your flash cards. If you really want to test yourself- time yourself to try to get it all done in **2 minutes**.

2^2		$\sqrt{196}$	
4^2		$\sqrt{225}$	
6^2		$\sqrt{16}$	
7^2		$\sqrt{4}$	
3^2		$\sqrt{9}$	
12^2		$\sqrt{121}$	
11^2		$\sqrt{144}$	
5^2		$\sqrt{25}$	
8^2		$\sqrt{81}$	
9^2		$\sqrt{64}$	
13^2		$\sqrt{100}$	
10^2		$\sqrt{49}$	
15^2		$\sqrt{36}$	
14^2		$\sqrt{169}$	

Complete this progress tracker **after** we check our answers for the Study Guide. Use this as a way to focus your studying.

	Tracking Progress			
Lesson	Skill/Concept	Got It!	Almost!	Need to Review!
4-1	Divisibility			
4-2	Exponents			
4-3	Prime Numbers and Prime Factorization			
4-4	Greatest Common Factor (GCF)			

Please complete this portion and turn it in on the day of the Chapter 4 Quiz-Friday, February 12th. Please check off below what you did to study actively for Friday's Chapter 4 Quiz. Then, have your parents sign off to confirm that you spent time studying actively. Please make sure you identify the areas in which you need the most practice and focus your studying.

I redid old homework/study guide problems	
I reviewed the notes in my notebook	
I watched online video tutors on phschool.com	
I took online quizzes on phschool.com	
I practiced on Khan Academy	
I found extra problems to complete in my textbook	
I focused on the concepts that I am struggling with the most	
I completed the more challenging problems from each lesson because I feel comfortable with the basics	

Parents: Please sign below to confirm that your child spent an appropriate amount of time practicing for Friday's Quiz:

Parent Signature _____